1646

OCT 2 8 2002 TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/786,635A**TIME: 16:23:15

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                     Output Set: N:\CRF4\10152002\I786635A.raw
      3 <110> APPLICANT: Bayer AG
      5 <120> TITLE OF INVENTION: ATP binding cassette genes and proteins for diagnosis
              and treatment of lipid disorders and inflammatory
      7
              diseases
      9 <130> FILE REFERENCE: ATP binding cassette genes and protein
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/786,635A
C--> 12 <141> CURRENT FILING DATE: 2001-05-22
     14 <150> PRIOR APPLICATION NUMBER: 101706
     15 <151> PRIOR FILING DATE: 1998-09-25
     17 <160> NUMBER OF SEQ ID NOS: 54
     19 <170> SOFTWARE: PatentIn Ver. 2.0
                                                                ENTERED
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 6880
     23 <212> TYPE: DNA
     24 <213> ORGANISM: Human
     26 <220> FEATURE:
     27 <223> OTHER INFORMATION: cDNA of ABCA1 (ABC1)
     29 <400> SEQUENCE: 1
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     32 atgccctctg caggaacact tccttgggtt caggggatta tctgtaatgc caacaacccc 180
     33 tgtttccgtt acccgactcc tggggaggct cccggagttg ttggaaactt taacaaatcc 240
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     35 agcatgaagg acatgcgcaa agttctgaga acattacagc agatcaagaa atccagctca 360
     36 aacttgaage ttcaagattt eetggtggae aatgaaacet tetetgggtt eetgtateae 420
     37 aacctetete teecaaagte taetgtggae aagatgetga gggetgatgt catteteeae 480
     38 aaggtatttt tgcaaggcta ccagttacat ttgacaagtc tgtgcaatgg atcaaaatca 540
     39 qaaqaqatga ttcaacttgg tqaccaaqaa gtttctgagc tttgtggcct accaagggag 600
     40 aaactggctg cagcagagcg agtacttcgt tccaacatgg acatcctgaa gccaatcctg 660
     41 agaacactaa actctacatc tcccttcccg agcaaggagc tggccgaagc cacaaaaaca 720
     42 ttgctgcata gtcttgggac tctggcccag gagctgttca gcatgagaag ctggagtgac 780
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     44 taccaggetg tgtctcgtat tgtctgcggg catcccgagg gaggggggct gaagatcaag 900
     45 tototoaact ggtatgagga caacaactac aaagccctct ttggaggcaa tggcactgag 960
     46 qaaqatqctq aaaccttcta tgacaactct acaactcctt actgcaatga tttgatgaag 1020
     47 aatttggagt ctagteetet tteeegeatt atetggaaag etetgaagee getgetegtt 1080
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48 gggaagatce tgtatacace tgacactcca gccacaagge aggtcatgge tgaggtgaae 1140
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50 eccaagatet ggacettcat ggagaacage caagaaatgg accttgtceg gatgetgttg 1260
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56 aacaagtcca tggagctgct ggatgagagg aagttctggg ctggtattgt gttcactgga 1560 57 attactccag gcagcattga gctgccccat catgtcaagt acaagatccg aatggacatt 1620 58 gacaatgtgg agaggacaaa taaaatcaag gatgggtact gggaccctgg tcctcgagct 1680 59 gacccctttg aggacatgcg gtacgtctgg gggggcttcg cctacttgca ggatgtggtg 1740 60 gagcaggcaa tcatcagggt gctgacgggc accgagaaga aaactggtgt ctatatgcaa 1800 61 cagatgccct atccctgtta cgttgatgac atctttctgc gggtgatgag ccggtcaatg 1860 62 cccctcttca tgacgctggc ctggatttac tcagtggctg tgatcatcaa gggcatcgtg 1920 63 tatgagaagg aggcacggct gaaagagacc atgcggatca tgggcctgga caacagcatc 1980 64 ctctggttta gctggttcat tagtagcctc attcctcttc ttgtgagcgc tggcctgcta 2040 65 gtggtcatcc tgaagttagg aaacctgctg ccctacagtg atcccagcgt ggtgtttgtc 2100 66 ttcctgtccg tgtttgctgt ggtgacaatc ctgcagtgct tcctgattag cacactcttc 2160 67 tecagageca acctggeage agectgtggg ggeateatet aetteaeget gtacetgeee 2220 68 tacgtectgt gtgtggcatg geaggactae gtgggettea caeteaagat ettegetage 2280 69 ctgctgtctc ctgtggcttt tgggtttggc tgtgagtact ttgccctttt tgaggagcag 2340 70 ggcattggag tgcagtggga caacctgttt gagagtcctg tggaggaaga tggcttcaat 2400 71 ctcaccactt cggtctccat gatgctgttt gacaccttcc tctatggggt gatgacctgg 2460 72 tacattgagg ctgtctttcc aggccagtac ggaattccca ggccctggta ttttccttgc 2520 73 accaagteet actggtttgg egaggaaagt gatgagaaga gecaccetgg ttecaaccag 2580 74 aagagaatat cagaaatctg catggaggag gaacccaccc acttgaagct gggcgtgtcc 2640 75 attcagaacc tggtaaaagt ctaccgagat gggatgaagg tggctgtcga tggcctggca 2700 76 ctgaattttt atgagggcca gatcacctcc ttcctgggcc acaatggagc ggggaagacg 2760 77 accaccatgt caateetgae egggttgtte eeceegaeet egggeaeege etacateetg 2820 78 ggaaaagaca ttcgctctga gatgagcacc atccggcaga acctgggggt ctgtccccag 2880 79 cataacgtgc tgtttgacat gctgactgtc gaagaacaca tctggttcta tgcccgcttg 2940 80 aaagggetet etgagaagea egtgaaggeg gagatggage agatggeeet ggatgttggt 3000 81 ttqccatcaa qcaaqctqaa aagcaaaaca agccagctgt caggtggaat gcagagaaag 3060 82 ctatctgtgg ccttggcctt tgtcggggga tctaaggttg tcattctgga tgaacccaca 3120 83 gctqqtqtqq accettacte eegcaqqqqa atatqqqaqe tqetqetqaa atacegacaa 3180 84 ggccgcacca ttattctctc tacacaccac atggatgaag cggacgtcct gggggacagg 3240 85 attgccatca teteccatgg gaagetgtge tgtgtggget cetecetgtt tetgaagaac 3300 86 cagetgggaa caggetacta cetgacettg gteaagaaag atgtggaate eteceteagt 3360 87 tcctgcagaa acagtagtag cactgtgtca tacctgaaaa aggaggacag tgtttctcag 3420 88 agcagttetg atgetggeet gggeagegae catgagagtg acaegetgae categatgte 3480 89 totgotatot ccaacotoat caggaagcat gtgtotgaag cocggotggt ggaagacata 3540 90 gggcatgagc tgacctatgt gctgccatat gaagctgcta aggagggagc ctttgtggaa 3600 91 ctctttcatg agattgatga ccggctctca gacctgggca tttctagtta tggcatctca 3660 92 gagacgaccc tggaagaaat attcctcaag gtggccgaag agagtggggt ggatgctgag 3720 93 acctcagatg gtaccttgcc agcaagacga aacaggcggg ccttcgggga caagcagagc 3780 94 tgtcttcgcc cgttcactga agatgatgct gctgatccaa atgattctga catagaccca 3840 95 qaatccagag agacagactt gctcagtggg atggatggca aagggtccta ccaggtgaaa 3900 96 ggctggaaac ttacacagca acagtttgtg gcccttttgt ggaagagact gctaattgcc 3960 97 agacggagtc ggaaaggatt ttttgctcag attgtcttgc cagctgtgtt tgtctgcatt 4020 98 gcccttgtgt tcagcctgat cgtgccaccc tttggcaagt accccagcct ggaacttcag 4080 99 ccctqqatqt acaacqaaca qtacacattt qtcaqcaatq atqctcctga ggacacggga 4140 100 accetggaac tettaaacge ceteaceaaa gaceetgget tegggaeeeg etgtatggaa 4200 101 ggaaacccaa teecagacae geeetgeeag geaggggagg aagagtggae caetgeeeca 4260 102 qttccccaqa ccatcatgga cctcttccag aatgggaact ggacaatgca gaacccttca 4320 103 cctqcatqcc aqtqtaqcaq cqacaaaatc aagaagatgc tgcctgtgtg tcccccaggg 4380 104 gcagggggc tgcctcctcc acaaagaaaa caaaacactg cagatatcct tcaggacctg 4440

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107 aatactcaag cacttcctcc gagtcaagaa gttaatgatg ccaccaaaca aatgaagaaa 4620
108 cacctaaagc tggccaagga cagttctgca gatcgatttc tcaacagctt gggaagattt 4680
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111 ggagagaacc ctagccatta tggaattact gctttcaatc atcccctgaa tctcaccaag 4860
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117 ctacttttgc tgtatgggtg gtcaatcaca cctctcatgt acccagcctc ctttgtgttc 5220
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141 gccaaggacc aaagtgatga tgaccactta aaagacctct cattacacaa aaaccagaca 6660
142 gtagtggacg ttgcagttct cacatctttt ctacaggatg agaaagtgaa agaaagctat 6720
143 gtatgaagaa teetgtteat aeggggtgge tgaaagtaaa gagggaetag aettteettt 6780
144 gcaccatgtg aagtgttgtg gagaaaagag ccagaagttg atgtgggaag aagtaaactg 6840
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149 <212> TYPE: PRT
150 <213> ORGANISM: Human
152 <220> FEATURE:
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155 <400> SEOUENCE: 2
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يتو الاسك

RAW SEQUENCE LISTING DATE: 10/15/2002 PATENT APPLICATION: US/09/786,635A TIME: 16:23:15

Input Set : A:\Bayer 10,131 Sequence Listing.txt
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		λen	λen	Dro	_	Dho	Δra	ጥ፣/ነጉ	Dro		Pro	Glv	Glu	Δla	Pro	Glv
160	AIG	N311	ASII	20	Cys	riie	пту	ı yı	25	1111	110	O ₁	014	30	110	011
	Va 1	Val	G1 v	-	Dhe	Δen	T.vc	Ser		Val	Δla	Arσ	Len	-	Ser	Asp
163	Val	Val	35	ASII	riic	กรแ	Ly 5	40	110	· u ·	1114	**** 9	45		001	110P
	Δla	Δrσ		T.eu	T.eu	T.eu	Tvr	-	Gln	Lvs	Asp	Thr		Met	Lys	Asp
166	AIG	50	пту	пец	ьси	пса	55	JCI	OIII	ц	тор	60	001		D 10	P
	Mot		T.vc	Val	T.eu	Δrσ		T.eu	Gln	Gln	Tle		Lvs	Ser	Ser	Ser
169	65	nry	цуз	Val	ыси	70	1111	пси	OI.II	0.111	75	2,5	2,0	001	501	80
		T.611	T.v.c	T.eu	Gln		Phe	Len	Va l	Asn		Glu	Thr	Phe	Ser	
172	11011	пси	275		85			200	,	90					95	1
	Phe	Len	Tvr	His		Len	Ser	Len	Pro		Ser	Thr	Val	Asp	Lys	Met.
175		200	-1-	100					105	1-				110		
	Leu	Ara	Ala		Val	Ile	Leu	His	Lys	Val	Phe	Leu	Gln	Gly	Tyr	Gln
178		5	115					120	_1 -				125	-	-	
	Leu	His		Thr	Ser	Leu	Cvs	Asn	Gly	Ser	Lys	Ser	Glu	Glu	Met	Ile
181		130					135				•	140				
	Gln		Glv	Asp	Gln	Glu	Val	Ser	Glu	Leu	Cys	Gly	Leu	Pro	Arg	Glu
	145		1	•		150					155	-				160
		Leu	Ala	Ala	Ala	Glu	Arq	Val	Leu	Arg	Ser	Asn	Met	Asp	Ile	Leu
187	-				165					170				_	175	
189	Lys	Pro	Ile	Leu	Arg	Thr	Leu	Asn	Ser	Thr	Ser	Pro	Phe	Pro	Ser	Lys
190	-			180					185					190		
192	Glu	Leu	Ala	Glu	Ala	Thr	Lys	Thr	Leu	Leu	His	Ser	Leu	Gly	Thr	Leu
193			195				_	200					205			
195	Ala	Gln	Glu	Leu	Phe	Ser	Met	Arg	Ser	Trp	Ser	Asp	Met	Arg	Gln	Glu
196		210					215					220				
198	Val	Met	Phe	Leu	Thr	Asn	Val	Asn	Ser	Ser	Ser	Ser	Ser	Thr	Gln	Ile
199						230					235					240
201	Tyr	Gln	Ala	Val	Ser	Arg	Ile	Val	Cys	Gly	His	Pro	Glu	Gly	Gly	Gly
202					245			•		250					255	
204	Leu	Lys	Ile	Lys	Ser	Leu	Asn	Trp	Tyr	Glu	Asp	Asn	Asn	Tyr	Lys	Ala
205				260					265					270		
207	Leu	Phe	Gly	Gly	Asn	Gly	Thr	Glu	Glu	Asp	Ala	Glu	Thr	Phe	\mathtt{Tyr}	Asp
208			275					280					285			
210	Asn		Thr	Thr	Pro	Tyr	_	Asn	Asp	Leu	Met		Asn	Leu	Glu	Ser
211		290					295					300				_
		Pro	Leu	Ser	Arg		Ile	Trp	Lys	Ala		Lys	Pro	Leu	Leu	
214			_			310			_		315		_			320
	Gly	Lys	Ile	Leu	_	Thr	Pro	Asp	Thr		Ala	Thr	Arg	Gln	Val	Met
217	_	_			325					330			_,	•	335	_
	Ala	Glu	Val		Lys	Thr	Phe	GIn		Leu	Ala	Val	Pne		Asp	Leu
220				340			_		345	_			_,	350		a 1
	Glu	GTA		Trp	Glu	Glu	Leu		Pro	гÀг	тте	rrp		ьиe	Met	GIU
223		.	355	a 1	We ±	3	T	360	1	Mot	T 6	т	365	00-	λ w.~	7 a=
	Asn		GIN	GIU	мет	ASP		val	arg	wet	ьeu		ASP	ser	Arg	ASP
226	7	370	1114 ~	nha	m~~	C1	375	C1 ~	T 011	λ c.~	C1.,	380	λ c =	Trr	ጥሎም	בוג
		ASP	HIS	File	rrp		GIII	GIII	ьeu	ASP	395	ьеи	нар	ттЪ	Thr	400
229	202					390					נפנ					400

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	Ser	Asn	Gly	Ser 420		Tyr	Thr	Trp	Arg 425	-	Ala	Phe	Asn	Glu 430	Thr	Asn
	Gln	Ala	Ile 435		Thr	Ile	Ser	Arg		Met	Glu	Cys	Val 445		Leu	Asn
240	Lys			Pro	Ile	Ala			Val	Trp	Leu			Lys	Ser	Met
241	Glu	450	T.611	Δen	Glu	Δrσ	455	Dhe	Trn	Δla	Glv	460	Va 1	Phe	Thr	Glv
	465	пец	пец	пэр	GIU	470	цуз	1110	115	mu	475	110	, 44	1110		480
246	Ile	Thr	Pro	Gly	Ser	Ile	Glu	Leu	Pro	His	His	Val	Lys	Tyr	Lys	Ile
247					485					490			_		495	
249 250	Arg	Met	Asp	Ile 500	Asp	Asn	Val	Glu	Arg 505	Thr	Asn	Lys	Ile	Lys 510	Asp	Gly
252 253	Tyr	Trp	Asp 515	Pro	Gly	Pro	Arg	Ala 520	Asp	Pro	Phe	Glu	Asp 525	Met	Arg	Tyr
255	Val	Trp	Gly	Gly	Phe	Ala		Leu	Gln	Asp	Val		Glu	Gln	Ala	Ile
256		530		_			535		_	_	_,	540		_		a 1
	Ile	Arg	Val	Leu	Thr	G1y	Thr	Glu	Lys	Lys	Thr 555	GLY	Val	туr	Met	560
	545 Gln	Mot	Pro	ጥኒንዮ	Pro		Tur	Val	Asn	Asn		Phe	Len	Arσ	Va 1	
262	GIII	Mec	110	1 7 1	565	Cys	111	Vai	nsp	570	110	1110	пса	111.9	575	1100
	Ser	Arg	Ser	Met	Pro	Leu	Phe	Met	Thr	Leu	Ala	Trp	Ile	Tyr	Ser	Val
265		_		580					585					590		
	Ala	Val		Ile	Lys	Gly	Ile		Tyr	Glu	Lys	Glu		Arg	Leu	Lys
268	C1	mh	595	7 ~~~	Tla	Wat	C1	600) an	A an	Cor	т1.	605	Trn	Dho	Cor
270	Glu	610	Met	Arg	rre	met	615	Leu	ASP	ASII	ser	620	Leu	пр	Pile	ser
	Trp		Ile	Ser	Ser	Leu		Pro	Leu	Leu	Val		Ala	Gly	Leu	Leu
	625					630					635			-		640
277	Val	Val	Ile	Leu	Lys	Leu	Gly	Asn	Leu	Leu	${\tt Pro}$	\mathtt{Tyr}	Ser	Asp		Ser
278				_	645			_		650	_				655	
	Val	Val	Phe		Phe	Leu	Ser	Val		Ala	Val	Val	Thr	11e 670	Leu	GIn
281	Cys	Dha	T.QII	660	Sar	Thr	T.Ou	Dhe	665	Δτα	Δla	Δen	T.eu		Δla	Δla
284	Cys	1110	675	110	DCI	1111	LCu	680	DCI	**** 9	1114	11011	685	1124	1114	
	Cys	Gly	Gly	Ile	Ile	Tyr	Phe		Leu	Tyr	Leu	Pro	Tyr	Val	Leu	Cys
287		690	_				695					700				
	Val	Ala	${\tt Trp}$	Gln	Asp	_	Val	Gly	Phe	Thr		Lys	Ile	Phe	Ala	
	705	_	_	_		710	_,	~ 3	-1	~1	715	a 3	_	51 .		720
292	Leu	Leu	Ser	Pro	725	Ala	Phe	GIŸ	Phe	730	Cys	GIU	Tyr	Pne	735	Leu
	Phe	Glu	Glu	Gln		Tle	Glv	Va l	Gln		Asp	Asn	T.en	Phe		Ser
296	1110	JIU	51u	740	J-1	110	J-1	,41	745					750		
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299			755					760					765			
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302	17.5 1	770	Dwa	C1	C1-	m	775	т1 ~	Dwo	1 ma	Dro	780	™** ~	Dho	Dro	Cvc
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/786,635A

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Output Set: N:\CRF4\10152002\1786635A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 8,109,360,586,636,637,638,1040
Seq#:4; N Pos. 944,950,957,970,1001,1002,1003,1007
Seq#:13; N Pos. 4208,4210,4211,4212,4227,4228,4229,4231,4253,4677,4691,4707
Seq#:13; N Pos. 4721,4752,4754,4772,4773
Seq#:20; N Pos. 5,2909
Seq#:25; N Pos. 1963
Seq#:31; N Pos. 856,1009,1128,1314,1326,1328,1343,1345,1346,1378,1415,2477
Seq#:31; N Pos. 2540
Seq#:54; N Pos. 856,1009,1128,1314,1326,1328,1343,1345,1346,1378,1415,2477

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:11; Line(s) 1029
Seq#:31; Line(s) 1992
Seq#:54; Line(s) 2297